AMC-316 50 Ohm Coaxial Cable, black PE jacket with coextruded yellow stripe

Product Classification

Portfolio: CommScope®
Brand: Auto Mobile Cable™
Product Type: Coaxial automotive cable
Regional Availability: Asia | Australia/New Zealand | EMEA | Latin America | North America

Construction Materials

- Center Conductor Material: Bare copper
- Dielectric Material: PE
- Shield (Braid) Coverage: 93 %
- Shield (Braid) Material: Tinned copper
- Shield (Tape) Material: Aluminum, unbonded
- Jacket Material: PE

Dimensions

- Cable Length: 3048 m | 10000 ft
- Cable Weight: 8.20 lb/kft
- Diameter Over Center Conductor: 0.4636 mm | 0.0183 in
- Diameter Over Center Conductor Tolerance: ±0.00015 in
- Diameter Over Dielectric: 1.5240 mm | 0.0600 in
- Diameter Over Dielectric Tolerance: ±0.003 in
- Diameter Over Jacket Tolerance: ±0.004 in
- Diameter Over Jacket, nominal: 2.794 mm | 0.110 in
- Diameter Over Outer Shield (Braid): 2.032 mm | 0.080 in

Electrical Specifications

- Capacitance, maximum: 105.6 pF/m | 32.2 pF/ft
- Characteristic Impedance: 50 ohm
- Characteristic Impedance Tolerance: ±3 ohm
- Conductor dc Resistance: 31.00 ohms/kft
- Conductor dc Resistance, maximum: 35.00 ohms/kft
- Dielectric Strength at Voltage: 3 s @ 2,500 Vdc
- Jacket Spark Test Voltage: 2500 V
- Shield dc Resistance: 7.90 ohms/kft
- Velocity: 66 %
Environmental Specifications

Operating Temperature  
-40 °C to +85 °C (-40 °F to +185 °F)

General Specifications

Cable Type  
AMC-316

Jacket Color  
Black with co-extruded yellow stripe

Supported Application  
Automotive

Electrical Performance

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Attenuation (dB/100 m)</th>
<th>Attenuation (dB/100 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 MHz</td>
<td>34.10</td>
<td>10.40</td>
</tr>
<tr>
<td>900 MHz</td>
<td>79.40</td>
<td>24.40</td>
</tr>
<tr>
<td>1400 MHz</td>
<td>101.30</td>
<td>30.90</td>
</tr>
<tr>
<td>1800 MHz</td>
<td>115.80</td>
<td>35.30</td>
</tr>
<tr>
<td>2300 MHz</td>
<td>131.20</td>
<td>40.00</td>
</tr>
<tr>
<td>2500 MHz</td>
<td>140.70</td>
<td>42.90</td>
</tr>
</tbody>
</table>

*Attenuation listed represents maximum values at standard condition of 20 °C (68 °F)

*Electrical specifications/performance listed represents values at standard condition of 20 °C (68 °F)

Regulatory Compliance/Certifications

Agency  
ISO 9001:2015

Classification  
Designed, manufactured and/or distributed under this quality management system